



(43) International Publication Date  
14 July 2005 (14.07.2005)

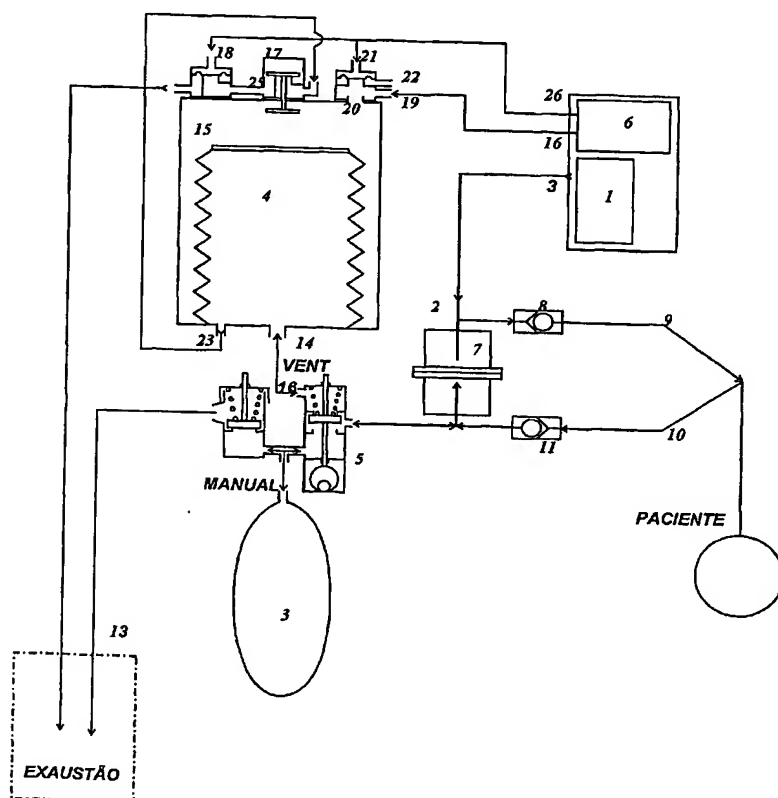
PCT

(10) International Publication Number  
**WO 2005/063324 A1**

- (51) International Patent Classification<sup>7</sup>: **A61M 16/00**,  
A62B 7/00, 7/10, 9/02
- (21) International Application Number:  
PCT/BR2004/000142
- (22) International Filing Date: 4 August 2004 (04.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
PI 0306282-1 26 December 2003 (26.12.2003) BR
- (71) Applicant (for all designated States except US): **INTERMED EQUIPAMENTO MÉDICO HOSPITALAR LTDA.** [BR/BR]; Av. Cupecê, n° 1786, 04366-000 São Paulo (BR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BONASSA, Jorge** [BR/BR]; Rua Heron Domingues, n° 150 - Jardim Cordeiro, 04640-070 São Paulo (BR).
- (74) Agents: **SILVA, Francisco C.R. et al.**; Av. Brigadeiro Faria Lima, n° 1485 - 12 Floor, 01451-904 São Paulo (BR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **VENTILATION SYSTEM FOR RESPIRATORY DEVICES**



(57) Abstract: The present invention refers to a ventilation system used in hospital respiratory devices for the administration of anesthesia to newly born, pediatric and adult patients. More specifically, the present invention refers to a ventilation system that promotes a respiratory circuit with re-inhalation for the administration of anesthesia and that overcomes all inconveniences and deficiencies existing in respiratory devices of the state of the art. The ventilation system in respiratory devices comprises a bellows assembled within a reservoir, which is provided with a manifold with various gas exhaling valves, more specifically release valves to take out the excess of gases, and an exhaling valve for control gases. It is additionally constituted of a valve for the free flow of oxygen to quickly renew or replace the gases inside the respiratory circuit.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*